

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 6,848,502 B2  
APPLICATION NO. : 10/604947  
DATED : February 1, 2005  
INVENTOR(S) : William M. Bishop et al.

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

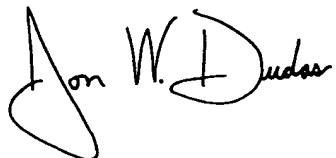
Title page, item

Related U.S. Application Data, Item (60), line 1 delete "December 9" and replace with  
-- December 19 --

Col. 1, line 7, delete "December 9" and replace with -- December 19 --;  
Col. 17, following the equation, insert the paragraph -- Here  $V$  is fluid velocity,  $g$  is acceleration due to gravity,  $D$  is the pipe diameter and  $\gamma$  is the fluid density and  $\Delta\gamma$  is the change in fluid density. If  $F$  is large, the terms involving stratification in the governing equation of fluid motion dropout of the equation. As a practical example, two-phase flows in enclosed systems generally lose all stratification when the Froude Number rises to a range of from 1 to 2. In the present invention, the value of the Froude Number ranges in the hundreds, which assures complete mixing of any density variations. These high values are assured by the fact that in dense phase flow, the term  $\Delta\gamma/\gamma$  in the equation above is small. --

Signed and Sealed this

Eighth Day of August, 2006



JON W. DUDAS  
*Director of the United States Patent and Trademark Office*